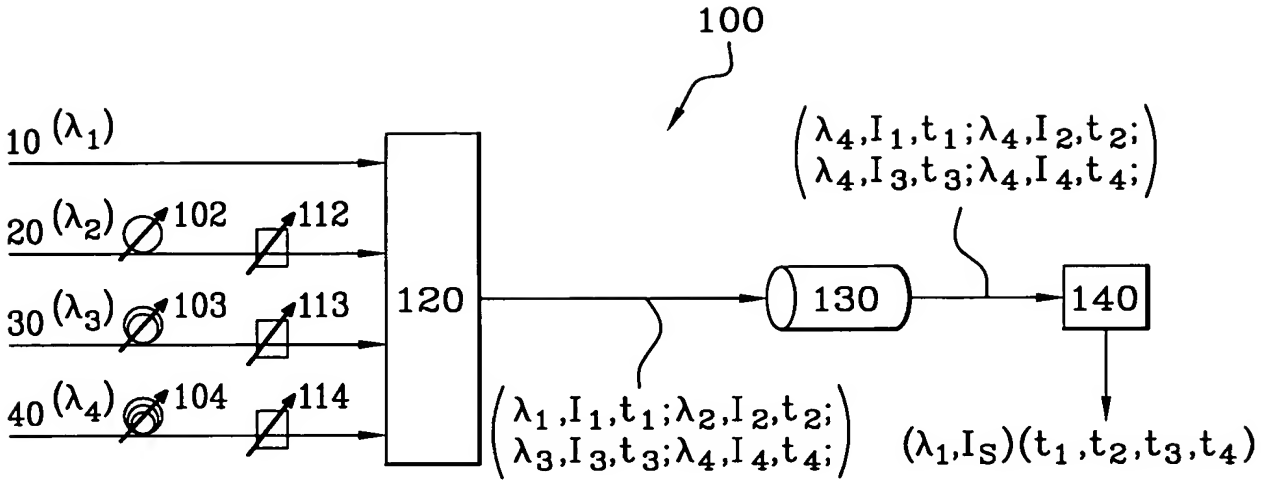
100
10 (λ1)
20 (λ2)
30 (λ3)
40 (λ4)
102
103
104
112
113
114
120
130
140
(λ4,I1,t1;λ4,I2,t2;
λ4,I3,t3;λ4,I4,t4;)
(λ1,I1,t1;λ2,I2,t2;
λ3,I3,t3;λ4,I4,t4;)
(λ1,IS)(t1,t2,t3,t4)

Fig. 1

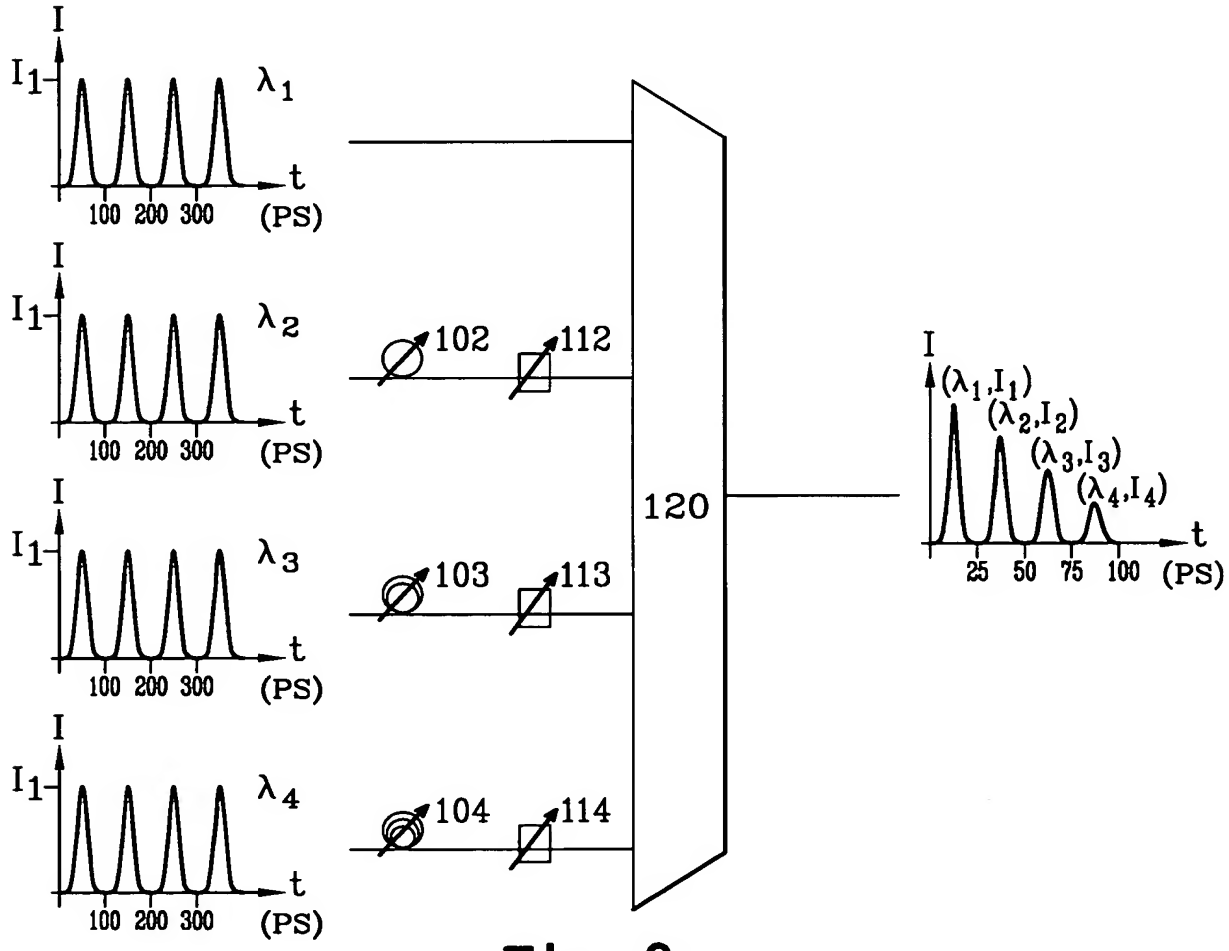
I
I1
λ1
λ2
λ3
λ4
t
100 200 300
(PS)
102
103
104
112
113
114
120
(λ1,I1)
(λ2,I2)
(λ3,I3)
(λ4,I4)
25 50 75 100

Fig. 2

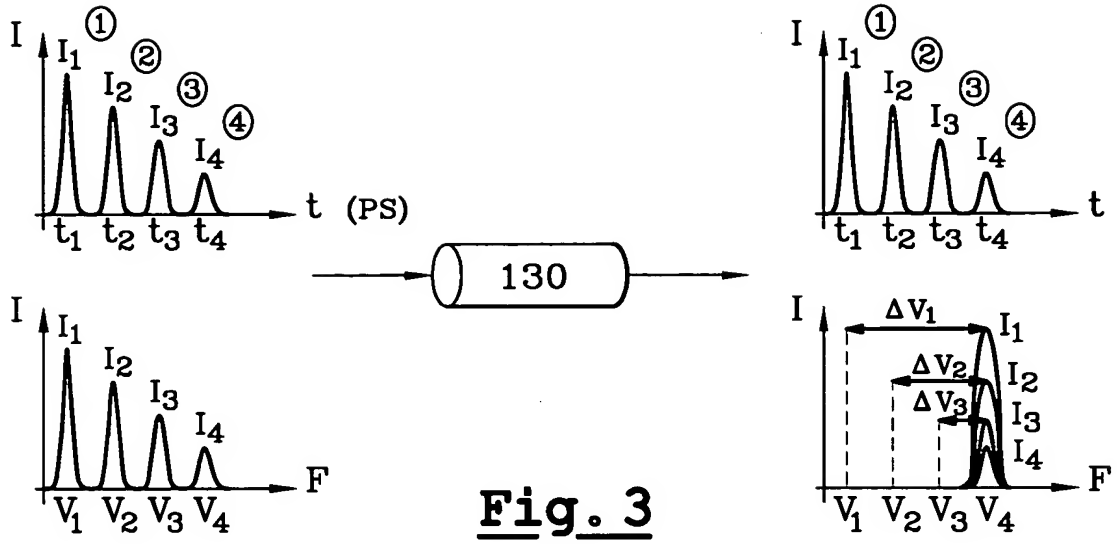
I
I1 ① I2 ② I3 ③ I4 ④
t (PS)
t1 t2 t3 t4
130
F
V1 V2 V3 V4
ΔV1
ΔV2
ΔV3

Fig. 3

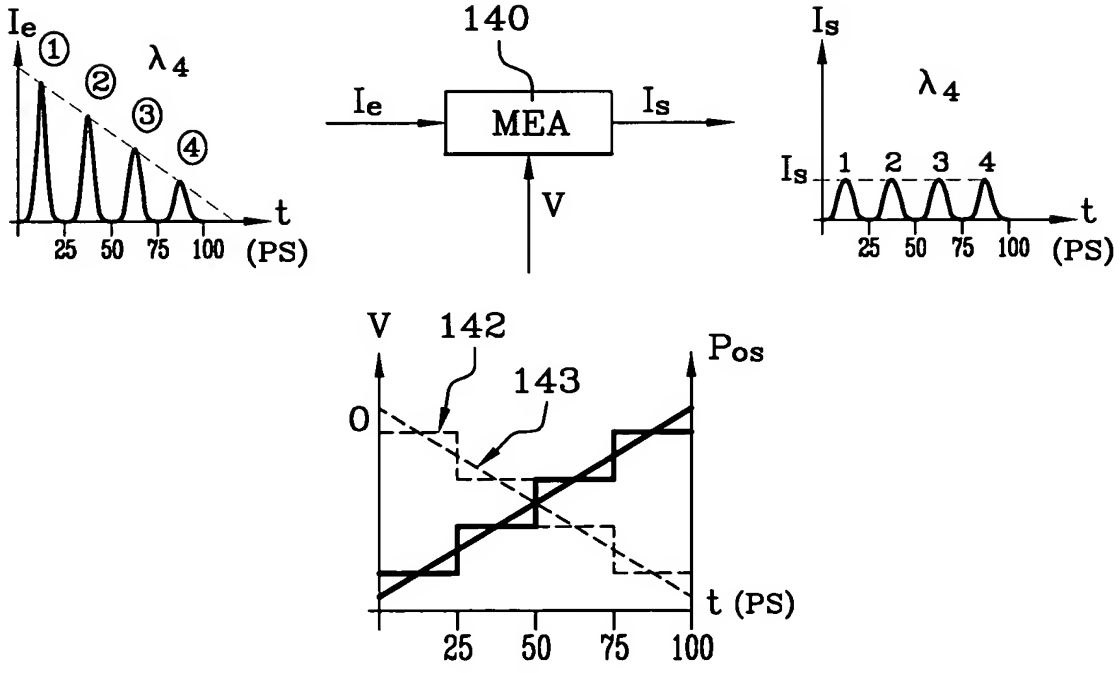
Ie
λ4
t
25 50 75 100 (PS)
140
MEA
Is
V
1 2 3 4
V 142
143
Pos
0
t (PS)

Fig. 4

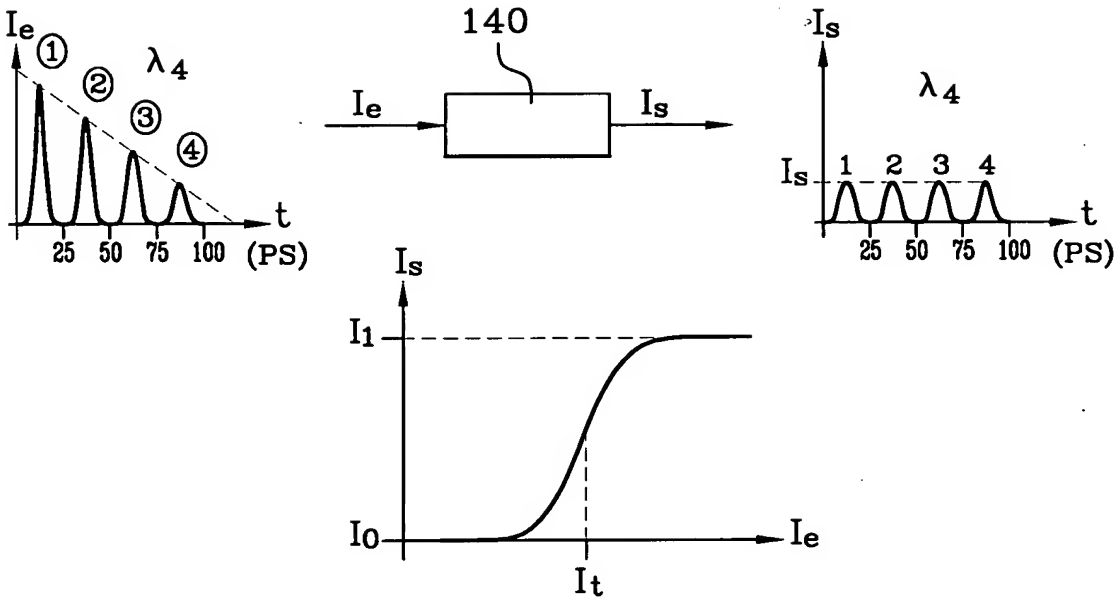
Ie
①
②
③
④
λ4
t
25 50 75 100 (PS)
140
Ie
Is
Is
λ4
Is
1 2 3 4
t
25 50 75 100 (PS)
Is
I1
I0
Ie
It

Fig. 5

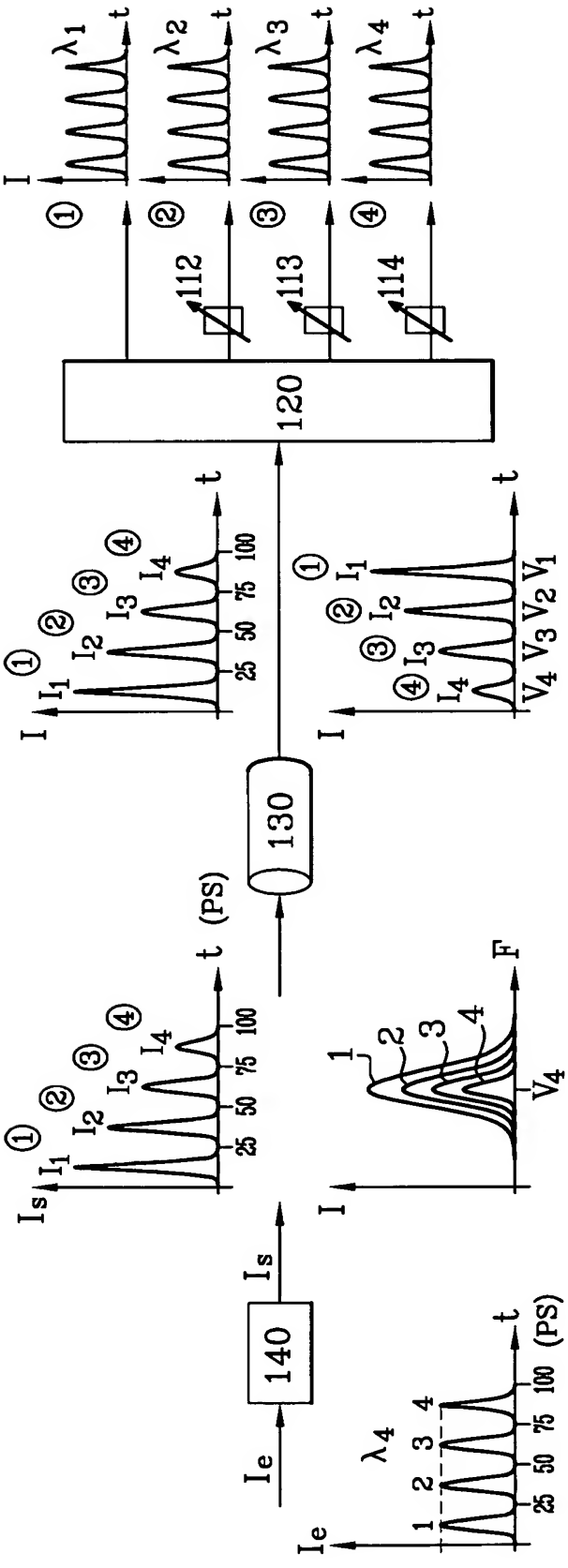
Ie
140
Is
130
120
112
113
114
λ1
λ2
λ3
λ4
t
(PS)
I
F
V1
V2
V3
V4
I1
I2
I3
I4
25
50
75
100

Fig. 6